

Claims

- [c1] 1.A method of accessing data through an optical disk drive, the optical disk connected to a computer host, the computer host comprising a central processing unit (CPU) for controlling operation of the computer host, and a storage device for storing a predetermined program, the CPU executing the predetermined program for driving the optical disk drive to complete a predetermined access operation through a first procedure, a second procedure, and a third procedure, the first procedure being performed by the predetermined program, the second procedure being performed by the optical disk drive, the method comprising:
- the predetermined program performing the first procedure and outputting a control command to the optical disk drive for actuating the optical disk drive to perform the second procedure; and
- after the first procedure and the second procedure are completed, the predetermined program performing the third procedure for controlling the optical disk drive to access an optical disk;
- wherein a period when the predetermined program performs the first procedure overlaps a period when the op-

tical disk drive performs the second procedure.

- [c2] 2.The method of claim 1 wherein the predetermined access operation is a data writing operation for writing user data into the optical disk.
- [c3] 3.The method of claim 2 wherein the predetermined program is a writing program used for performing the first procedure to prepare the user data predetermined to be written into the optical disk.
- [c4] 4.The method of claim 3 wherein the optical disk drive is a CD-R drive used for performing the second procedure to actuate an optimum power control (OPC) for the optical disk, and the optimum power control determines a laser power required to burn the optical disk for recording the user data.
- [c5] 5.The method of claim 4 wherein the laser power is a write power of the CD-R drive, and when performing the third procedure, the writing program transmits the user data to the optical disk recorder, and the optical disk recorder writes the user data into the optical disk according to the write power.
- [c6] 6.The method of claim 4 wherein the optical disk drive is a CD-RW drive, and the laser power is an erase power of the CD-RW drive.

- [c7] 7.The method of claim 1 wherein before performing the predetermined access operation, the predetermined program outputs a second control command to the optical disk drive for triggering the optical disk drive so that the optical disk drive starts transmitting hardware parameters to the predetermined program.
- [c8] 8.The method of claim 1 wherein when the optical disk drive completes the second procedure, the optical disk drive transmits a response signal to inform the predetermined program that the second procedure has been completed.
- [c9] 9. The method of claim 1 wherein when the optical disk drive completes the first procedure, the optical disk drive transmits a query command to the optical disk drive for detecting whether the optical disk drive has completed the second procedure.
- [c10] 10.The method of claim1 wherein when the optical disk drive completes the second procedure, the optical disk drive sets a flag parameter so that the predetermined program is capable of reading the flag parameter to determine whether the optical disk drive has completed the second procedure.
- [c11] 11.The method of claim 1 wherein the predetermined

program is a data reading operation for reading user data stored on the optical disk.

[c12] 12.The method of claim 11 wherein the predetermined program is a multimedia player for performing the first procedure to actuate plug-ins while playing the user data.

[c13] 13.The method of claim 12 wherein the optical disk drive performs the second procedure to search a location of the optical disk used to store the user data.

[c14] 14.The method of claim 13 wherein when the third procedure is performed, the optical disk drive transmits the user data on the optical disk to the multimedia player, and the multimedia player starts executing the plug-ins while playing the user data.